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TRANSMITTAL LETTER TO THE UNITED STATES	ATTTORNEY'S DOCKET NUMBER 0206-P03325US1		
DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	Not Yet Assigned 10 L Zo		
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/US03/36643 November 14, 2003	PRIORITY DATE CLAMED 7 4 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
TITLE OF INVENTION			
Method and Apparatus For Enhancing Heat Pump and Refrigeration Equipment APPLICANT(S) FOR DO/EO/US			
SAMI, Samuel, KULISH, Peter, KITA, Ronald: and SHIVO, Garrett			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 37	1.		
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission	on under 35 U.S.C. 371.		
<ol> <li>This is an express request to begin national examination procedures (35 U.S.C. 37 (5), (6), (9) and (21) indicated below.</li> </ol>	71(f)). The submission must include items		
4. The US has been elected (Article 31).			
A copy of the International Application as filed (35 U.S.C. 371(c)(2))			
a. is attached hereto (required only if not communicated by the International Bureau).			
b. has been communicated by the International Bureau.			
c. xx is not required, as the application was filed in the United States Receiving Office (RO/US).			
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).			
a. is attached hereto.			
b. has been previously submitted under 35 U.S.C. 154(d)(4).			
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))			
a. are attached hereto (required only if not communicated by the International Bureau).			
b. have been communicated by the International Bureau.			
c. have not been made; however, the time limit for making such amendments has NOT expired.			
d. have not been made and will not be made.			
8. An English language translation of the amendments to the claims under PCT Ar	rticle 19 (35 U.S.C. 371(c)(3)).		
9. XX An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).			
<ol> <li>An English language translation of the annexes of the International Preliminary E Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>	Examination Report under PCT		
Items 11 to 20 below concern document(s) or information included:	r.		
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.			
12. An assignment document for recording. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.		
13. XX A preliminary amendment.	,		
14. An Application Data Sheet under 37 CFR 1.76.	·		
15. A substitute specification.			
16. A power of attorney and/or change of address letter.			
17. A computer-readable form of the sequence listing in accordance with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.		
18. A second copy of the published International Application under 35 U.S.C. 154(d)	·(4).		
19. A second copy of the English language translation of the international application	n under 35 U.S.C. 154(d)(4).		
20. Other items or information:			

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. U.S. APPLICATION NO (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION Not Yet Assigned - 04 3 PCT/US03/36643 INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER 0206-P03325US1 21. The following fees are submitted: Applicant use Office use only 300.00 X b) Examination fee......\$200.00 200.00 s 500.00 \$1000.00 **TOTAL OF ABOVE CALCULATIONS =** \$1000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. **Total Sheets** Extra sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) - 100 = /50 = x \$250.00 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). **CLAIMS NUMBER FILED NUMBER EXTRA** RATE Total claims - 20 = × \$50.00 23 150.00 Independent claims - 3 = 0 \$200.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360.00 \$ TOTAL OF ABOVE CALCULATIONS = \$1150.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced 575.00 by 1/2. \$575.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). 575.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property TOTAL FEES ENCLOSED = \$ 575.00 Amount to be refunded: Amount to be charged a LX A check in the amount of \$ \_\_575.00 \_\_ to cover the above fees is enclosed. Please charge my Deposit Account No. in the amount of \$ \_\_\_ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No.04-1406. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. EXPRESS MAIL NUMBER EV30746\$789US SEND ALL CORRESPONDENCE TO: CUSTOMER NUMBER 900110 Stephen H. Eland TURE Dann, Dorfman, Herrell and Skillman Stephen H. Eland Suite 2400 Philadelphia, PA 19103-2307 41,010

**REGISTRATION NUMBER**